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## EGS Abstract for The Hague, 1999

### POLAR CAP BOUNDARY LAYER PLASMA WAVES: POLAR

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We discuss the properties of the PCBL waves: the local time distribution, the intensity dependence on interplanetary parameters such as IMF  $B_z$  and ram pressure (WIND data), and the modes of the waves present (high resolution POLAR data). Recent findings are that the waves are almost always present at all local times and are detected in locations consistent with the auroral oval. Bipolar and monopolar electric fields are detected which form the electric component of the waves. Ion acceleration by such waves will be discussed.

### Submittal Information

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2. Session ST4 Open Session on Magnetosphere
3. M.J. Rycroft and I. Sandahl
4. none
5. Oral presentation strongly preferred

### Abstracts to be submitted on or before December 15, 1997 to

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